

FIG.1

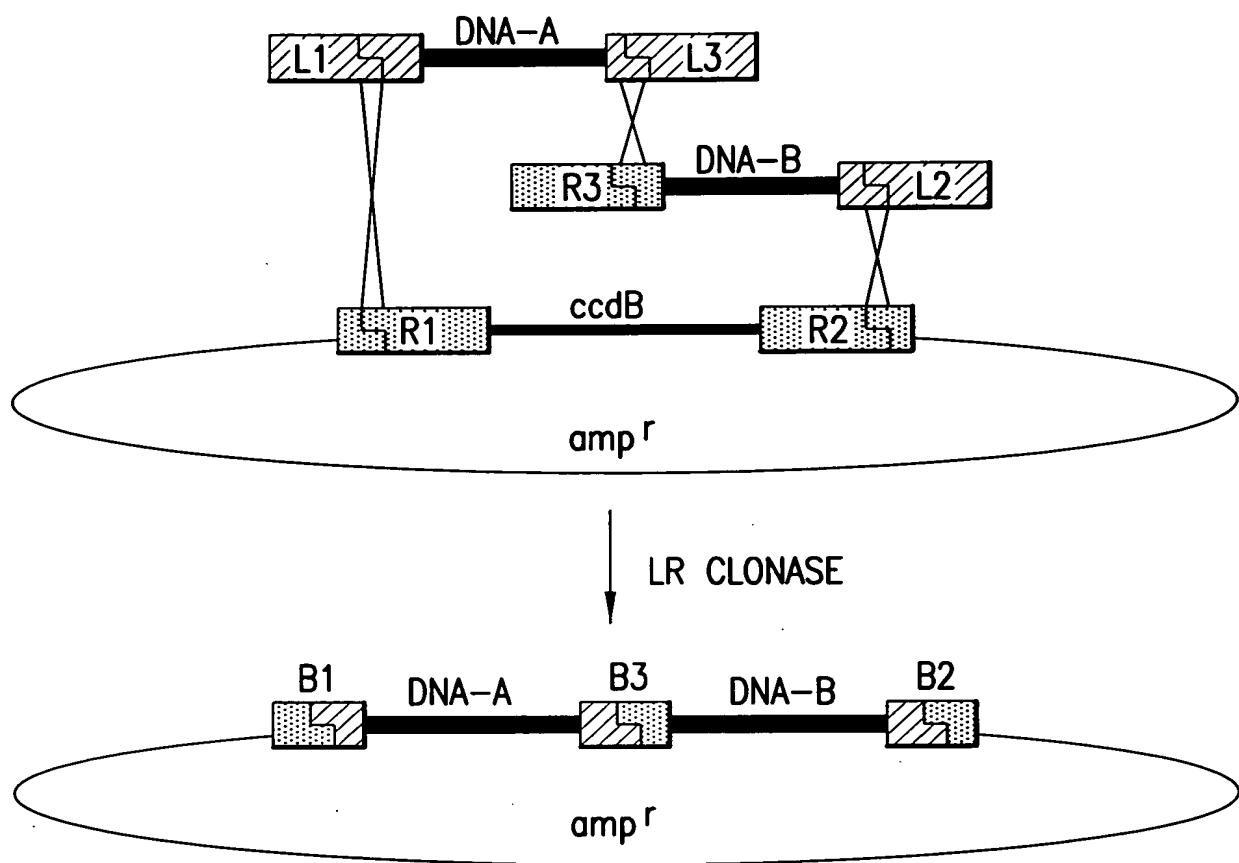


FIG.2

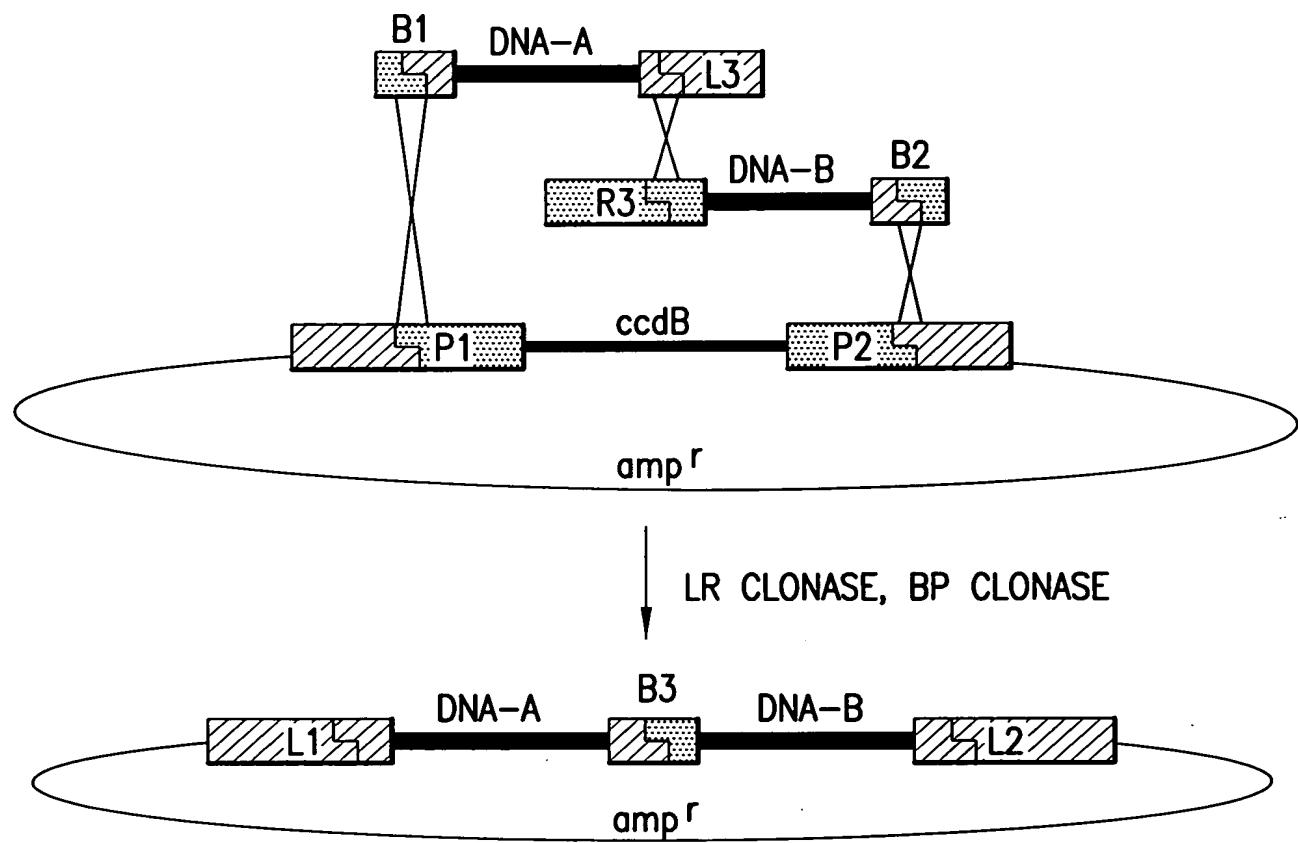


FIG.3

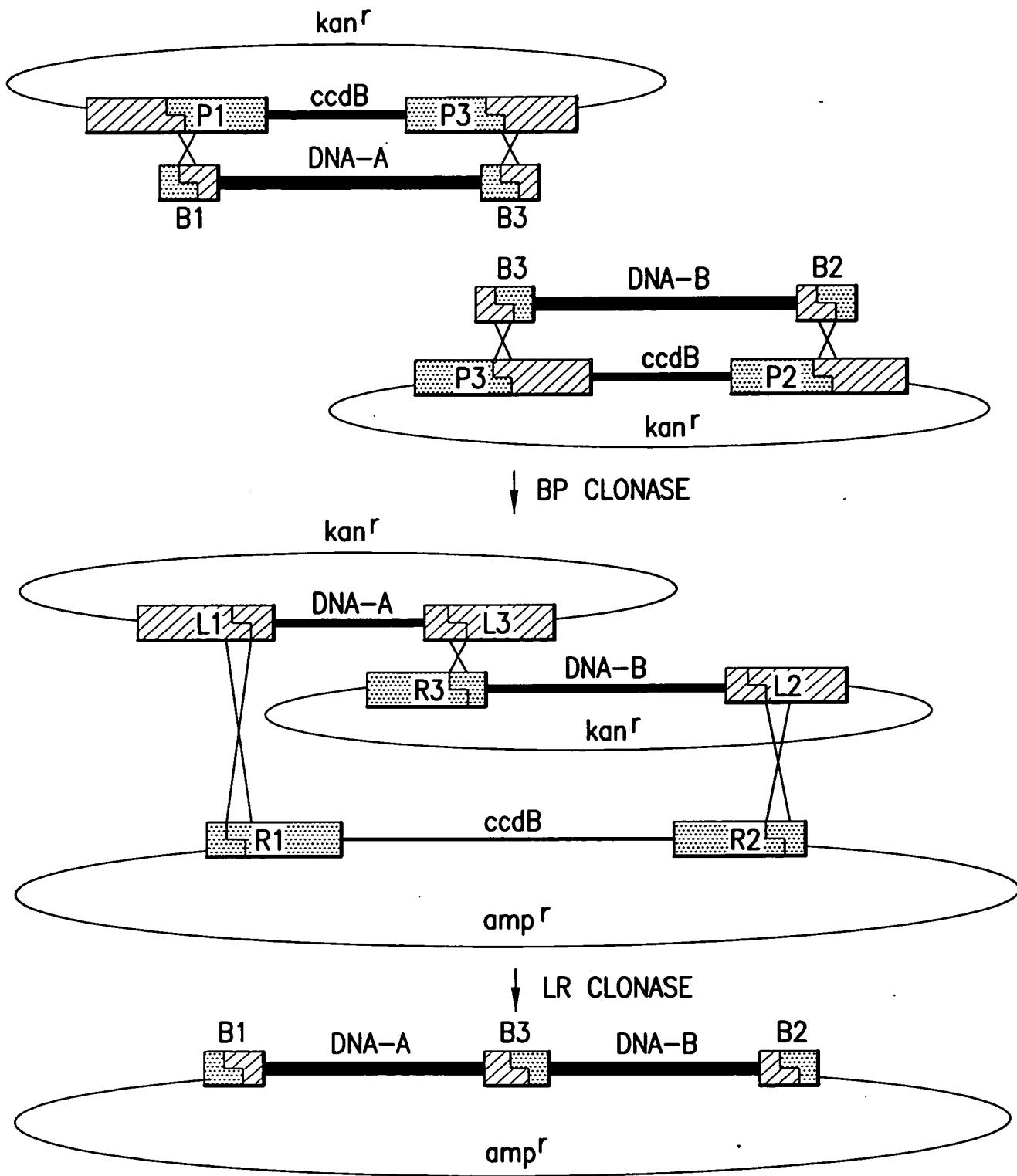


FIG.4

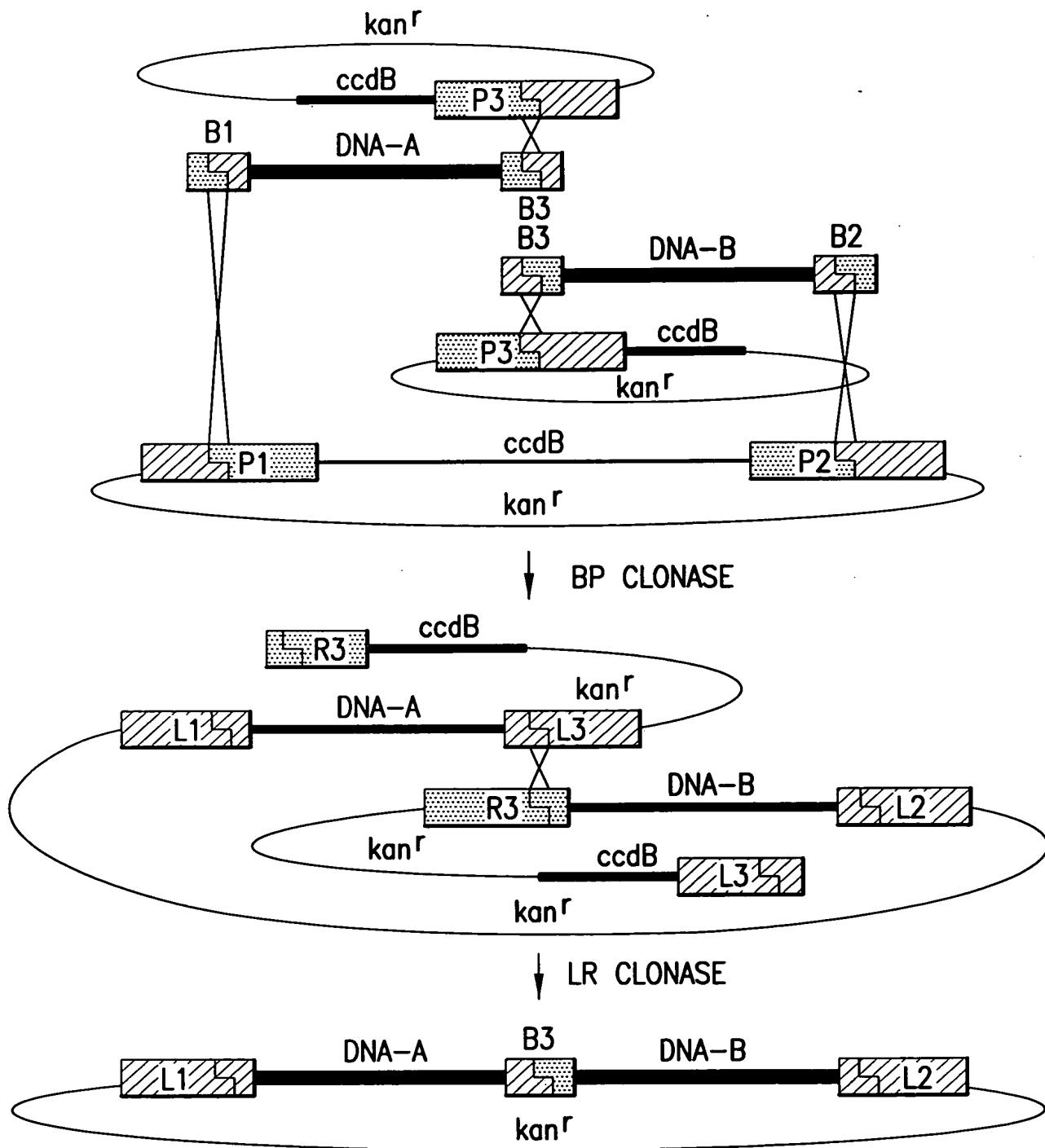


FIG.5

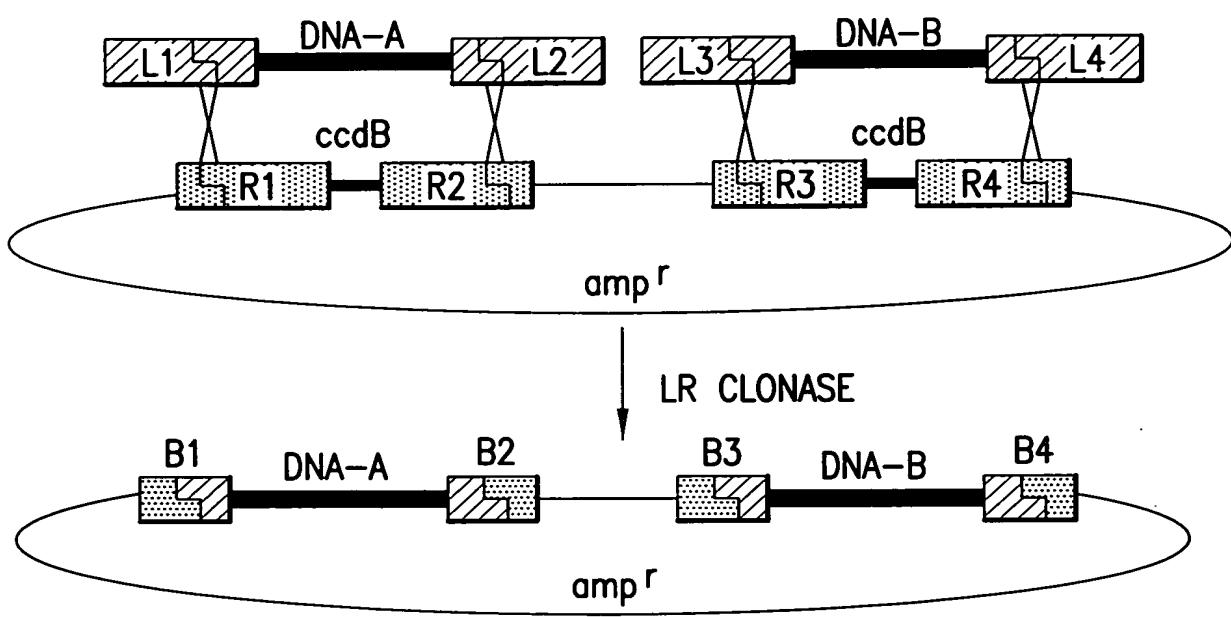


FIG.6

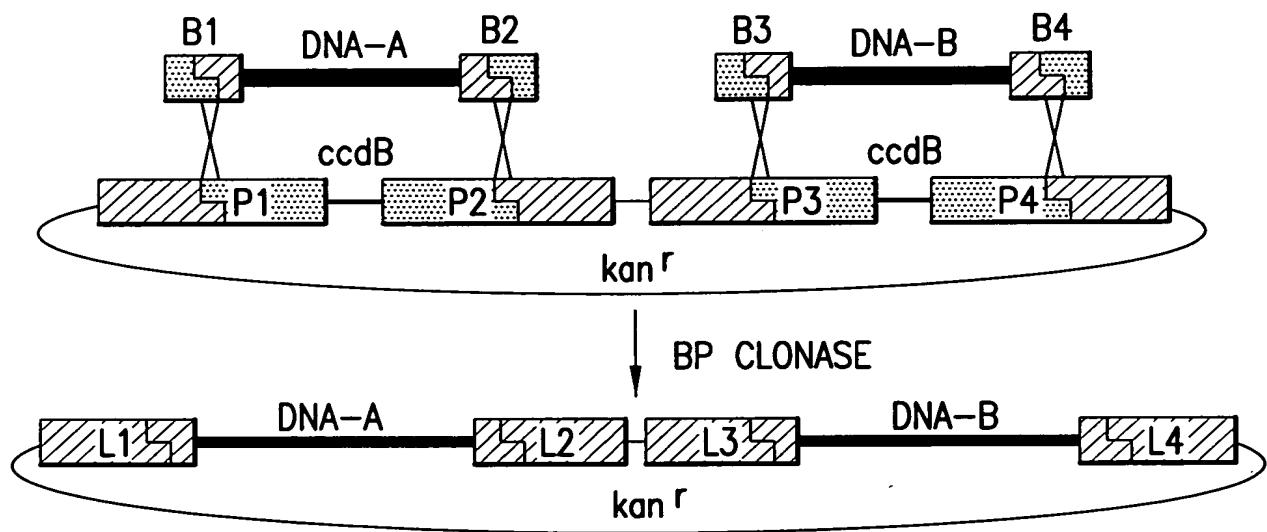


FIG.7

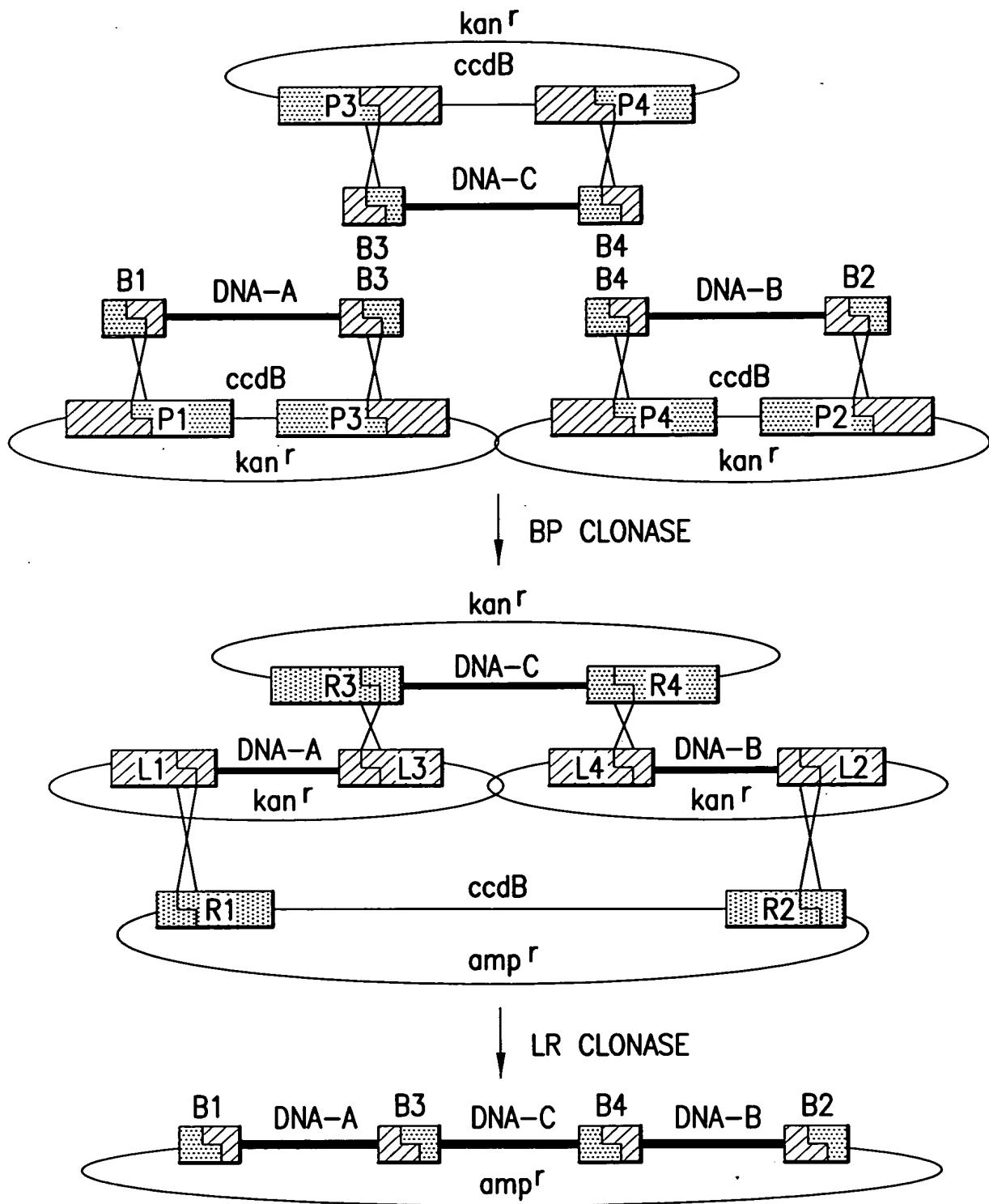


FIG.8

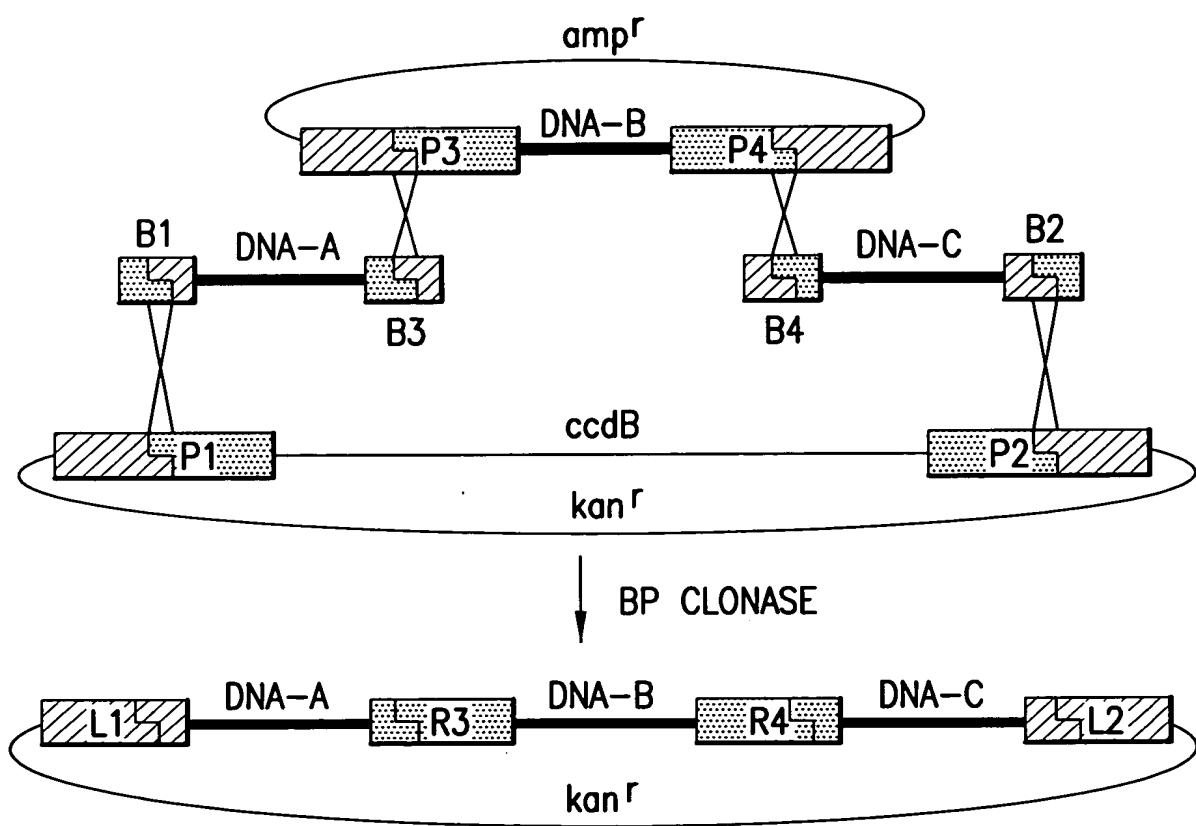


FIG.9

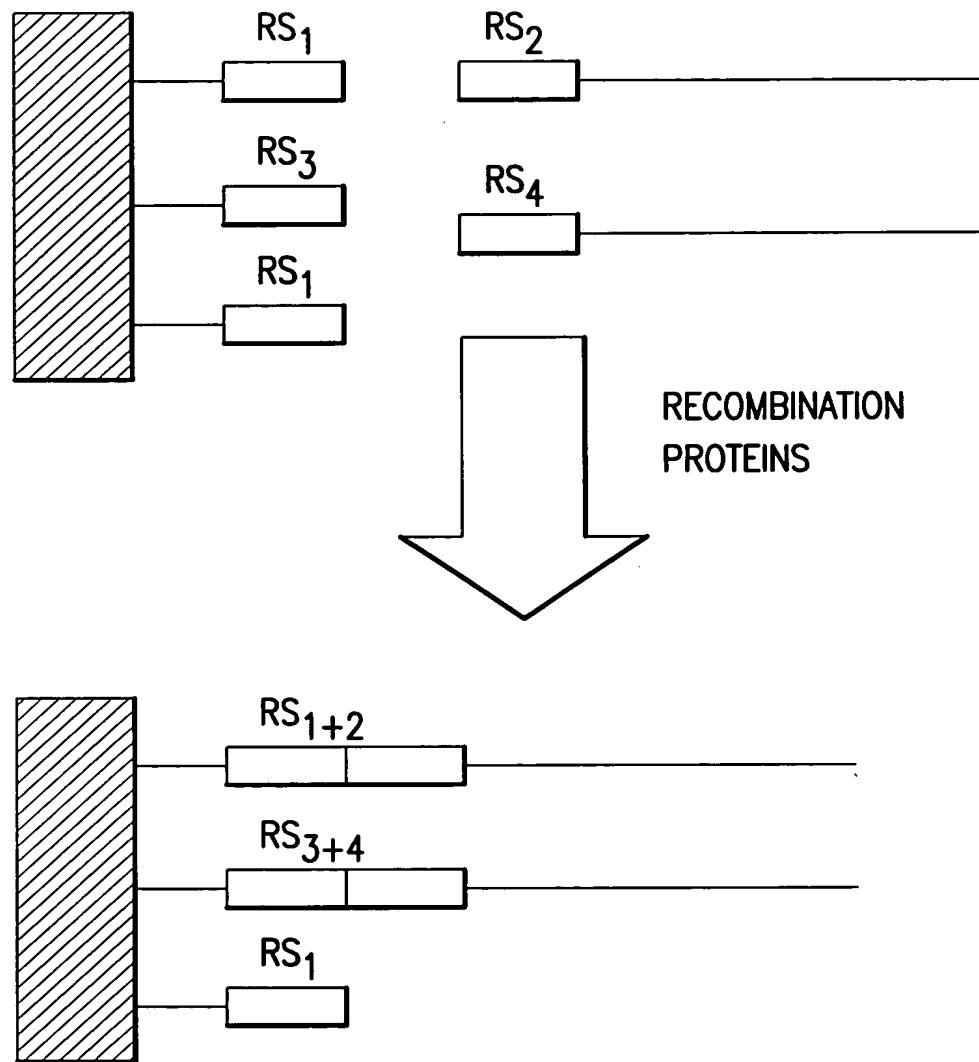


FIG.10

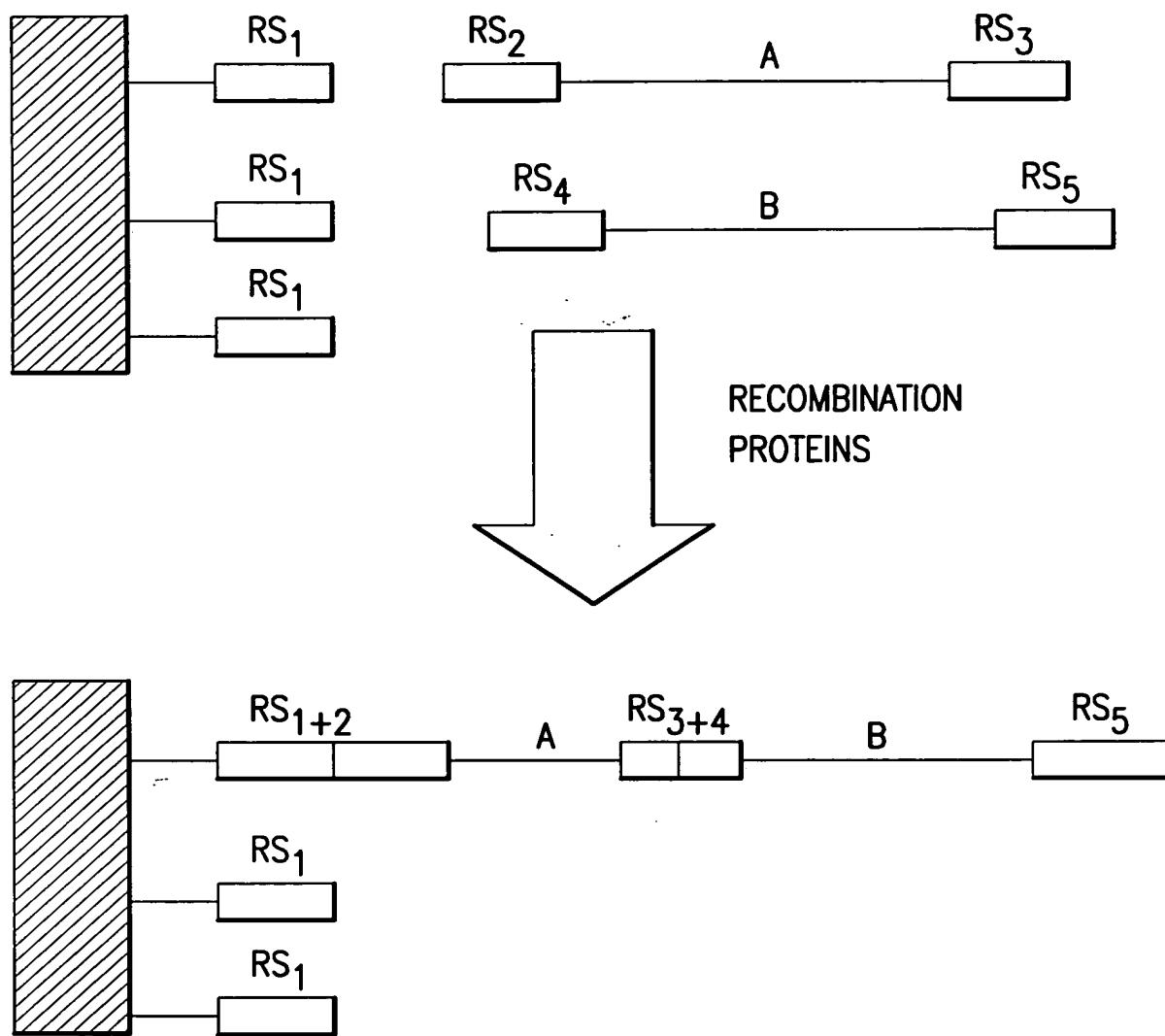
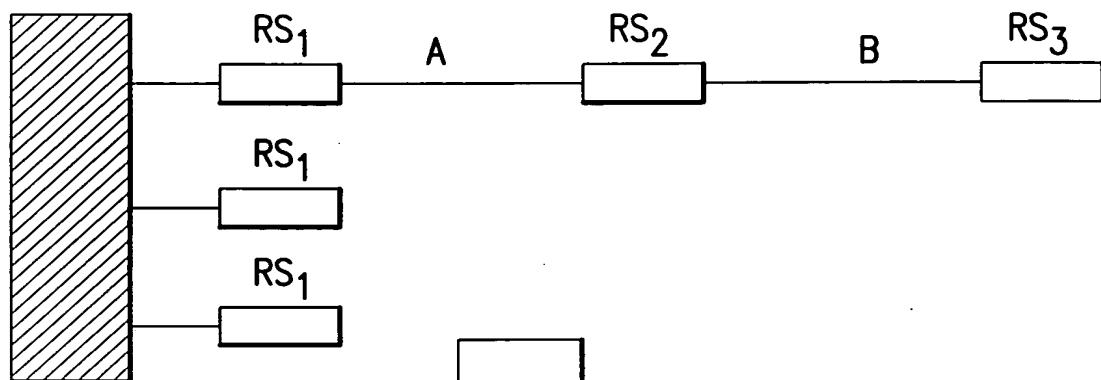


FIG.11



RECOMBINATION  
PROTEINS

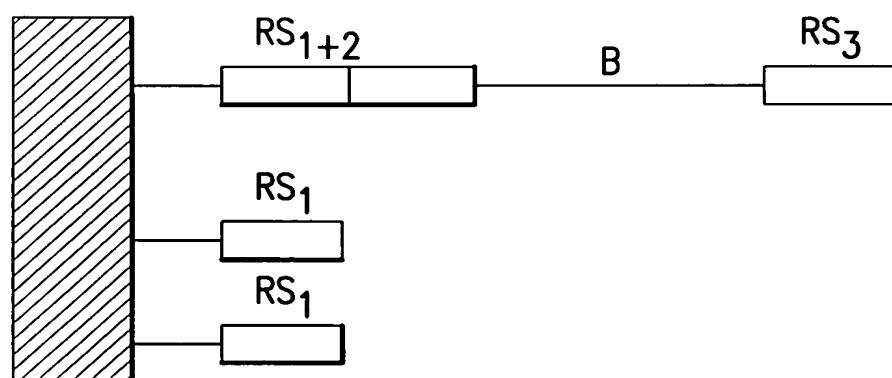


FIG.12

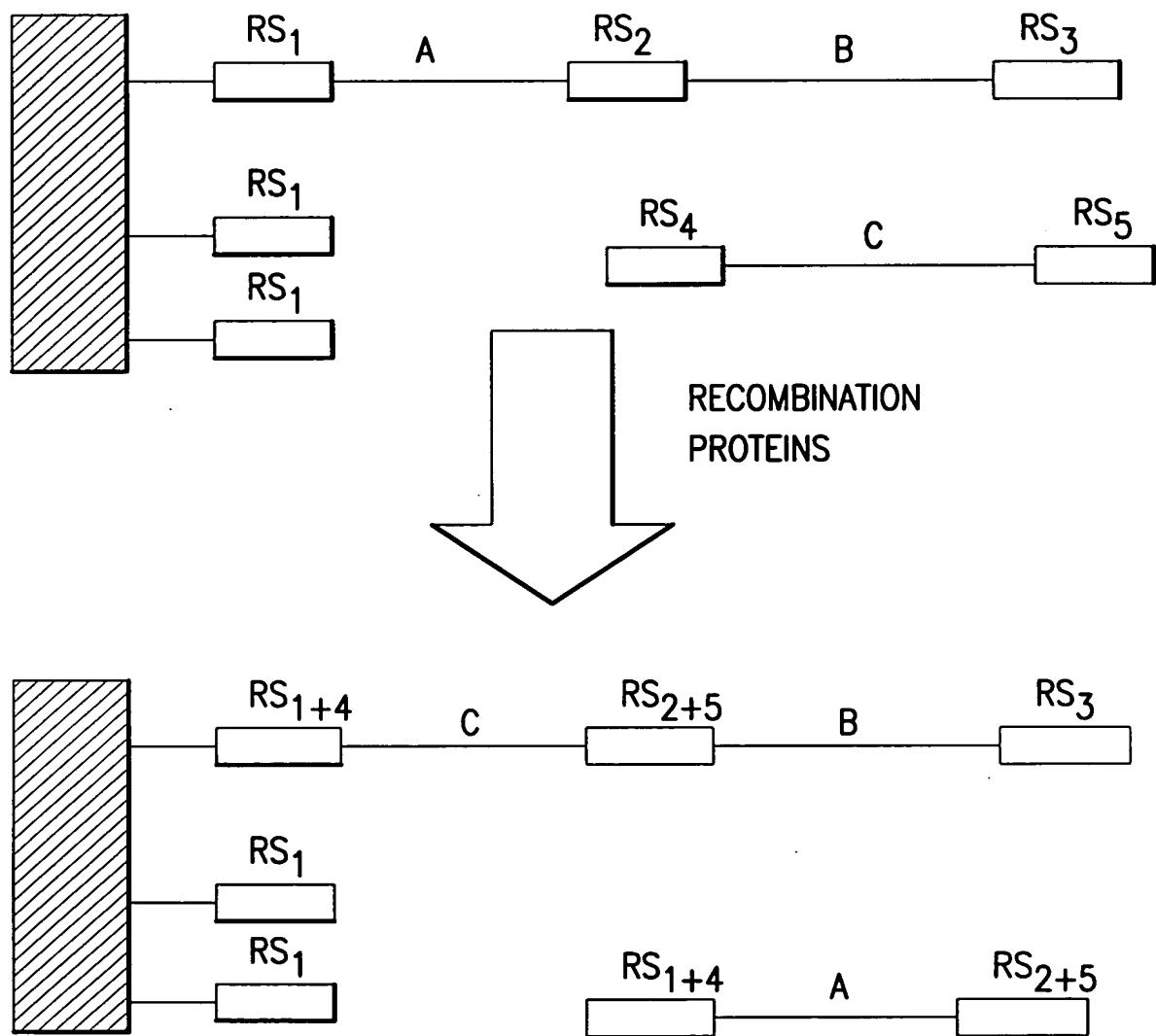


FIG.13

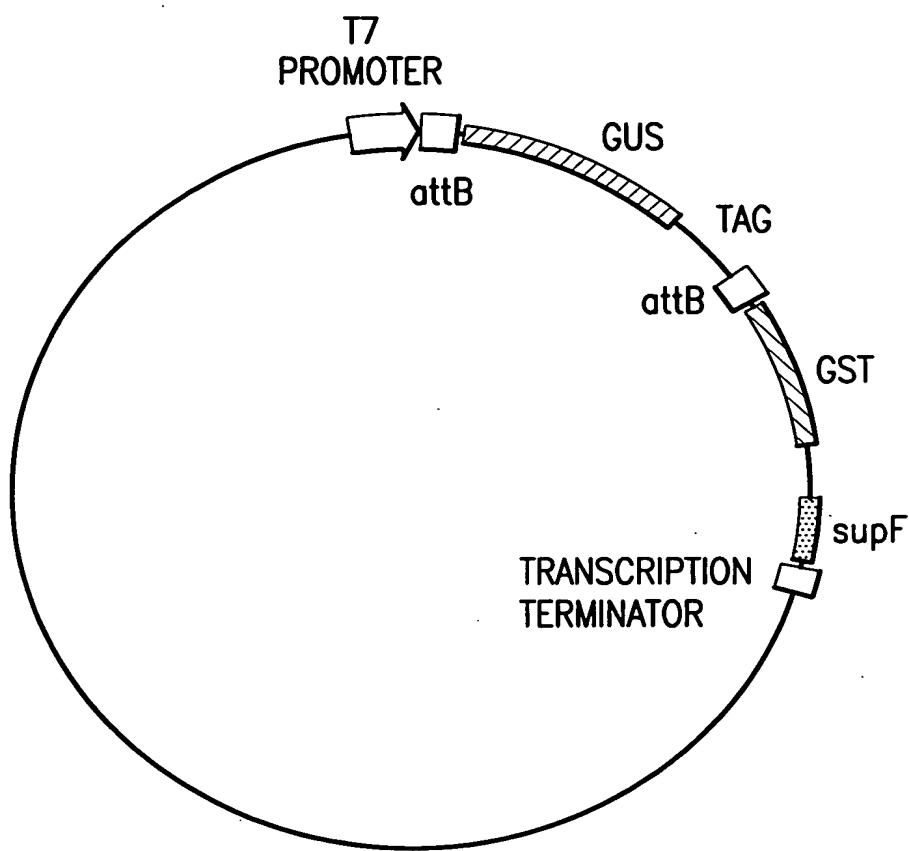


FIG.14A

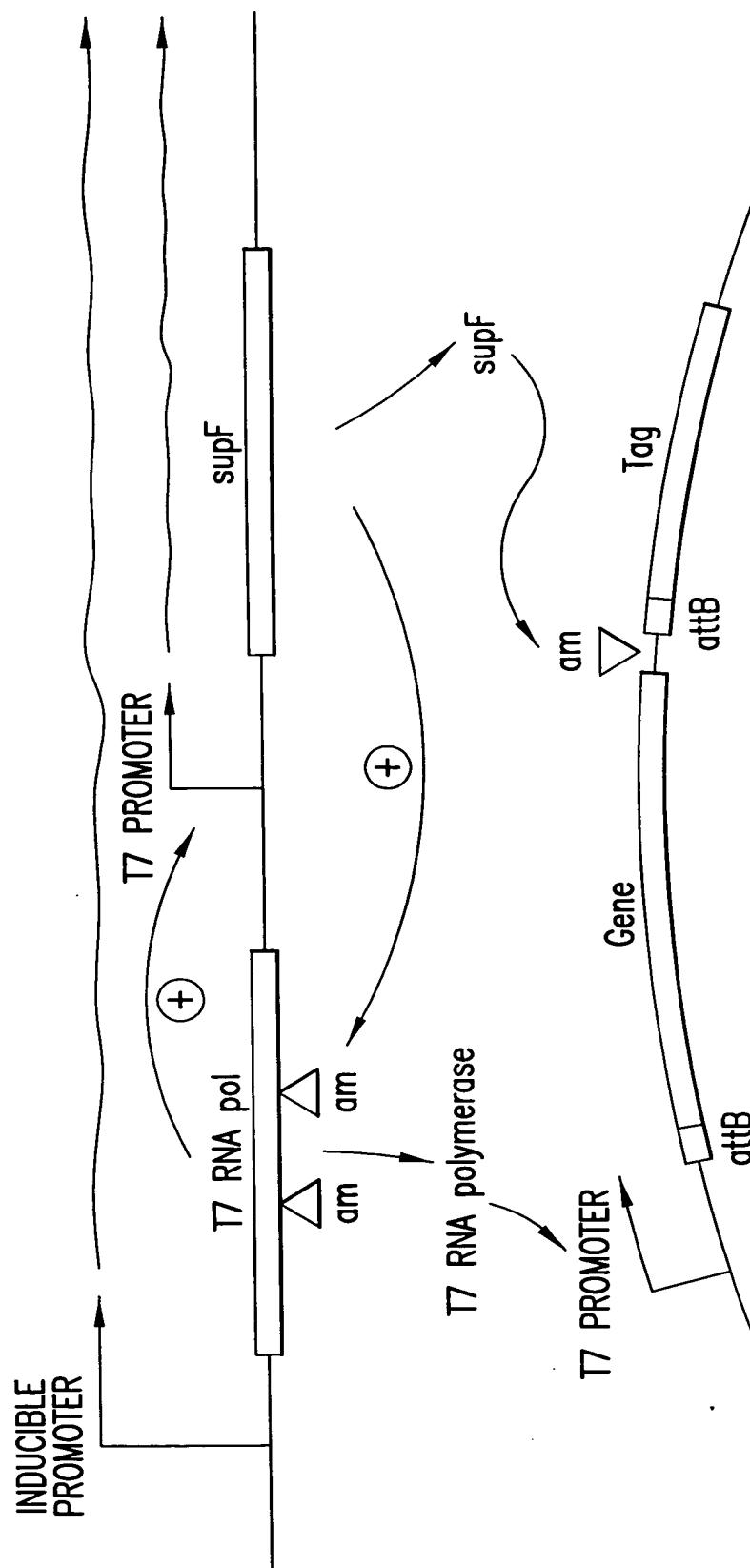


FIG. 14B

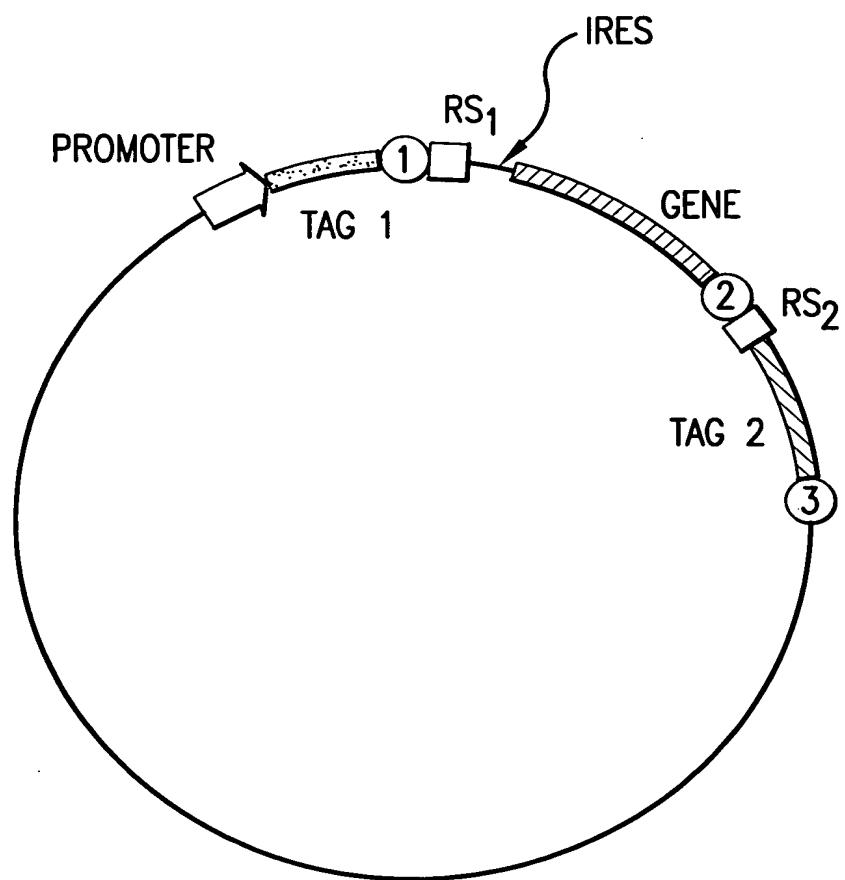


FIG.15

FIGURE 16

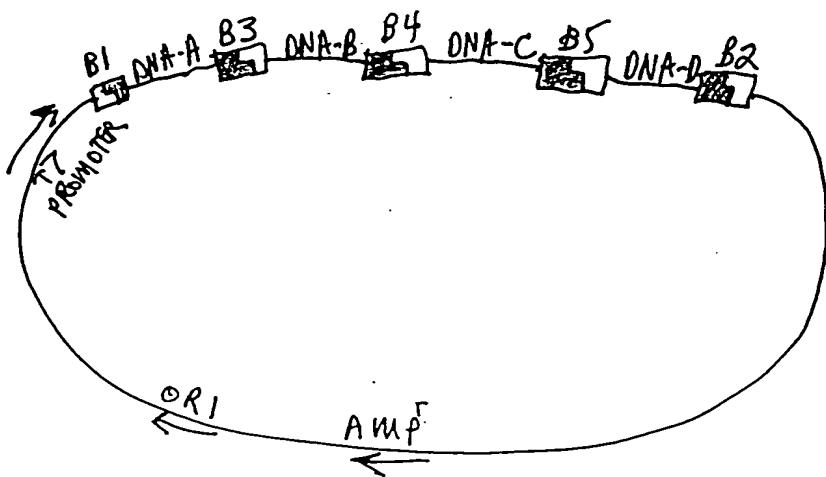
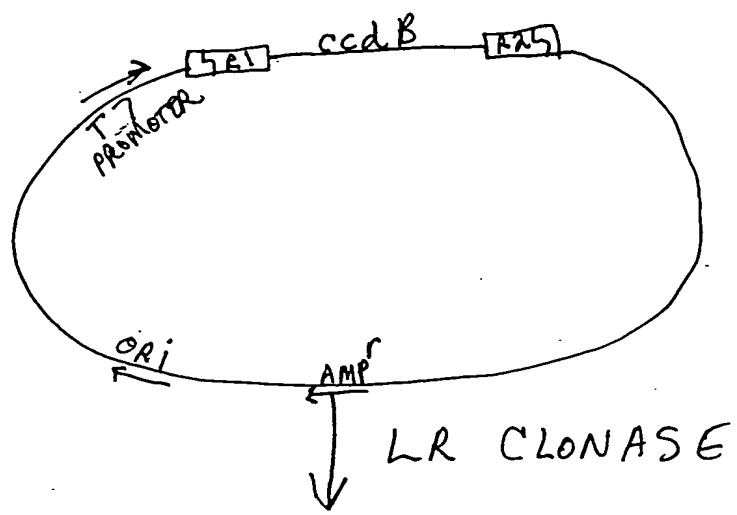
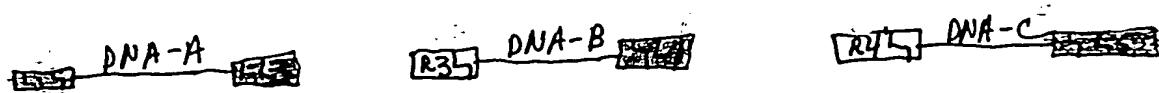


FIGURE 17A

## Cloning Light

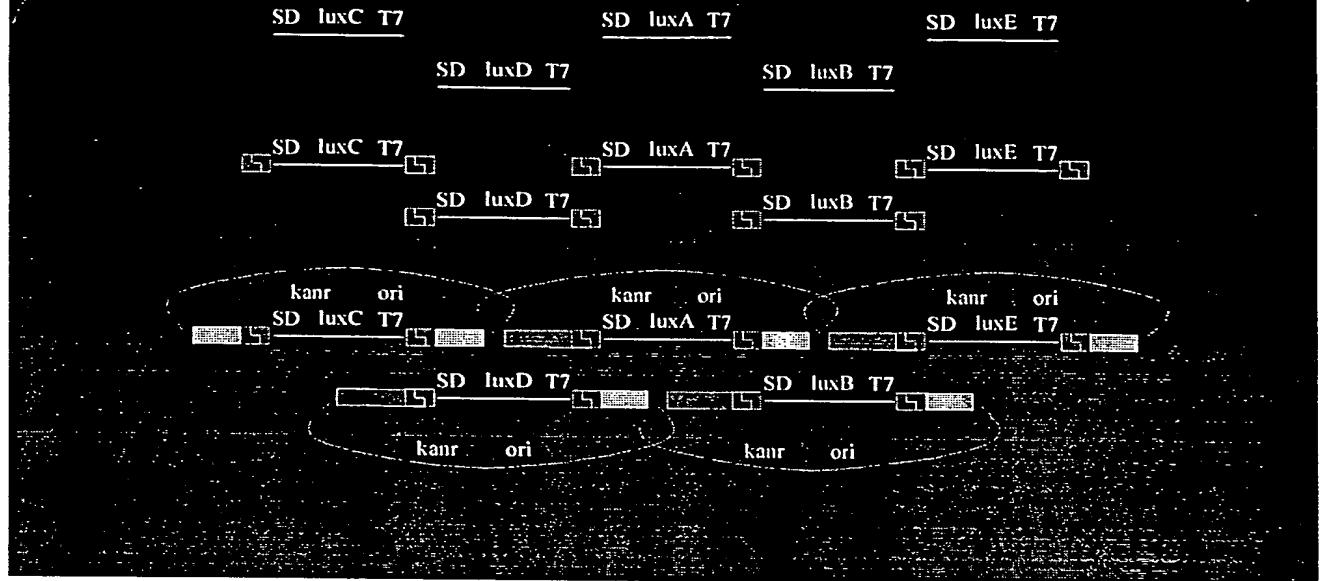


FIGURE 17B

## Cloning Light

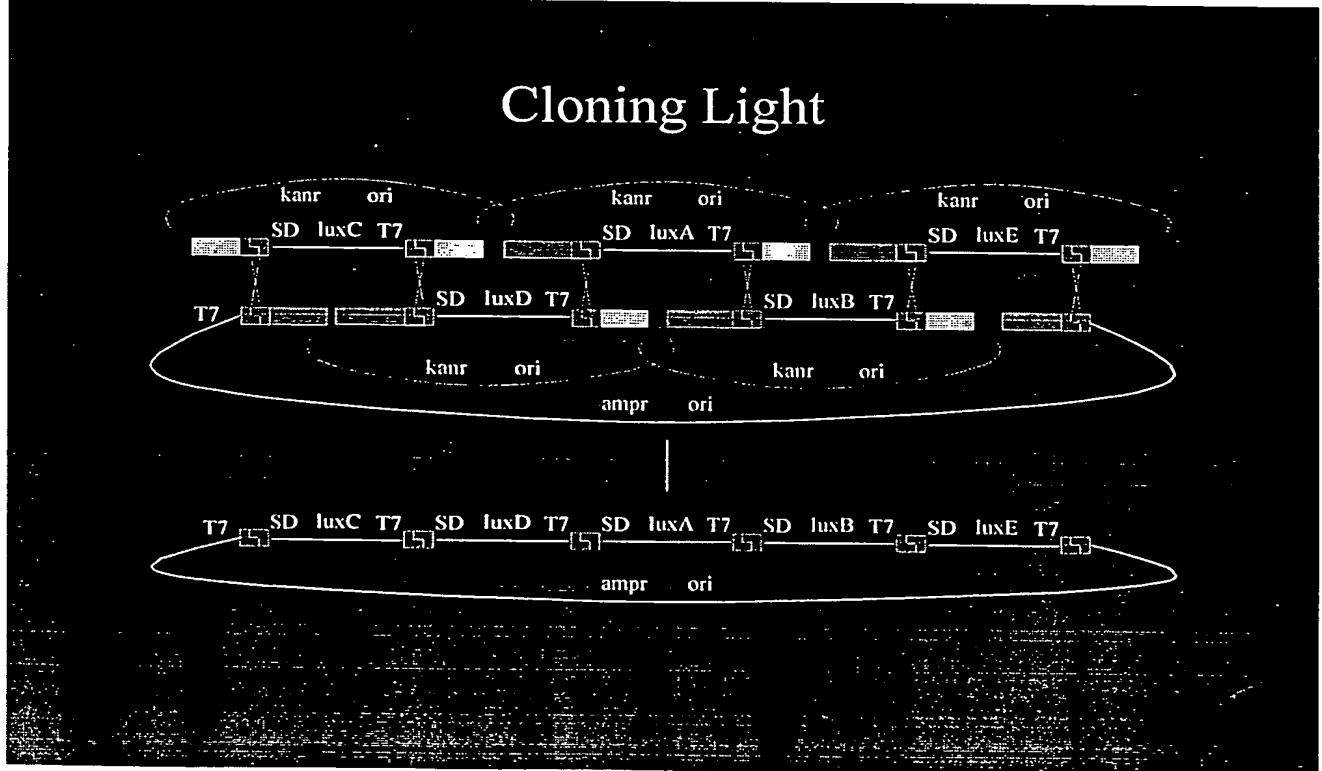


FIGURE 18

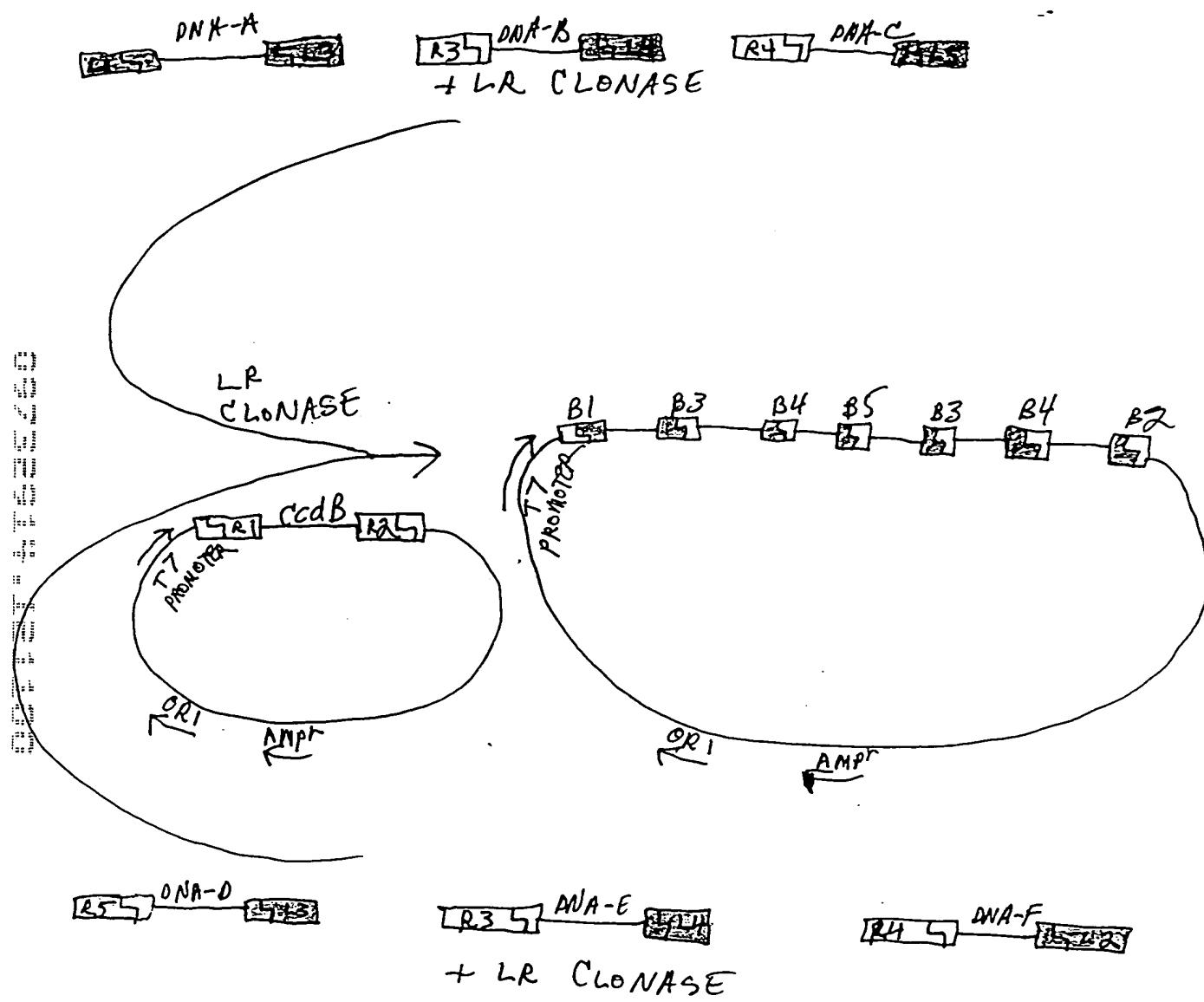


FIGURE 19

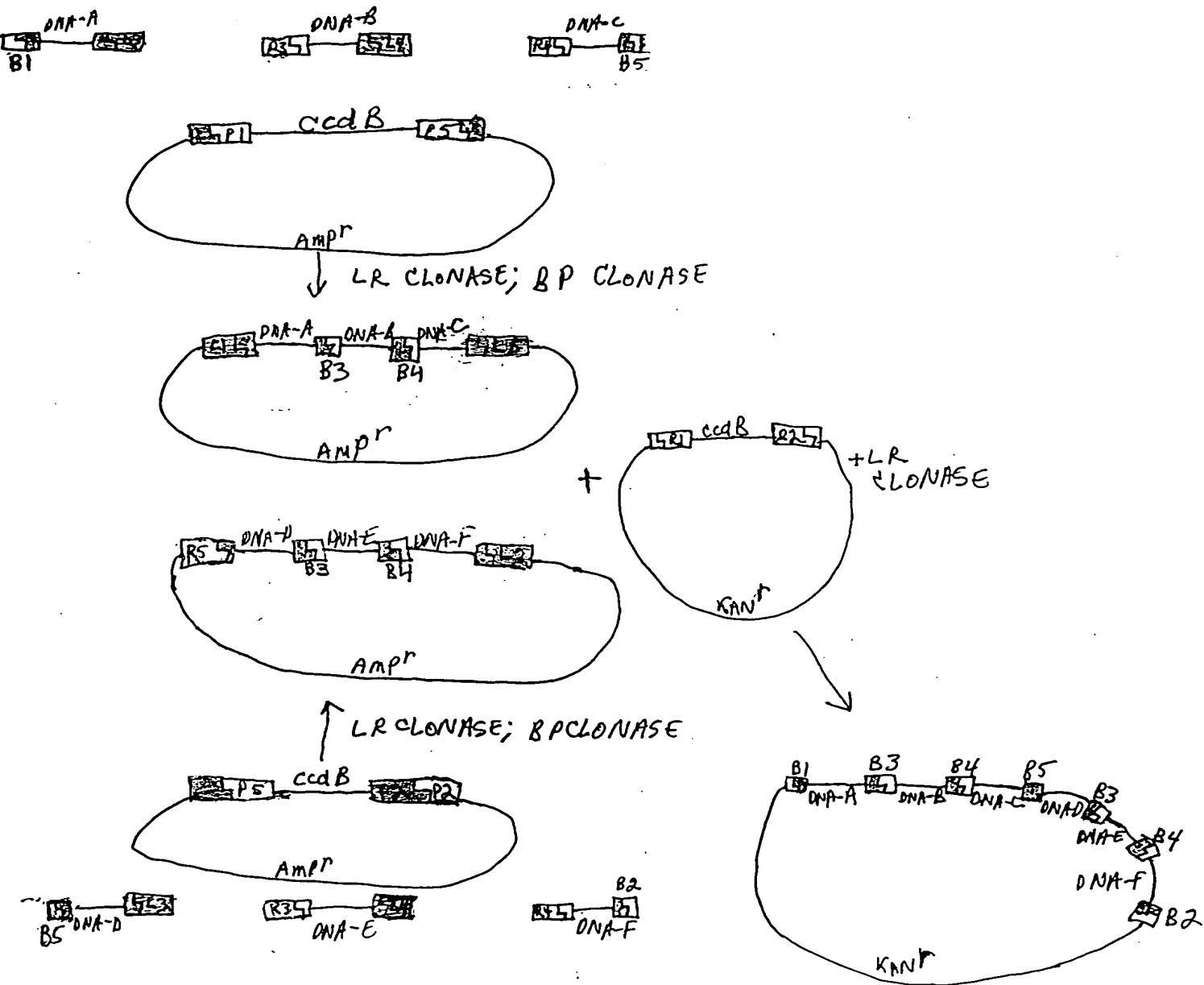
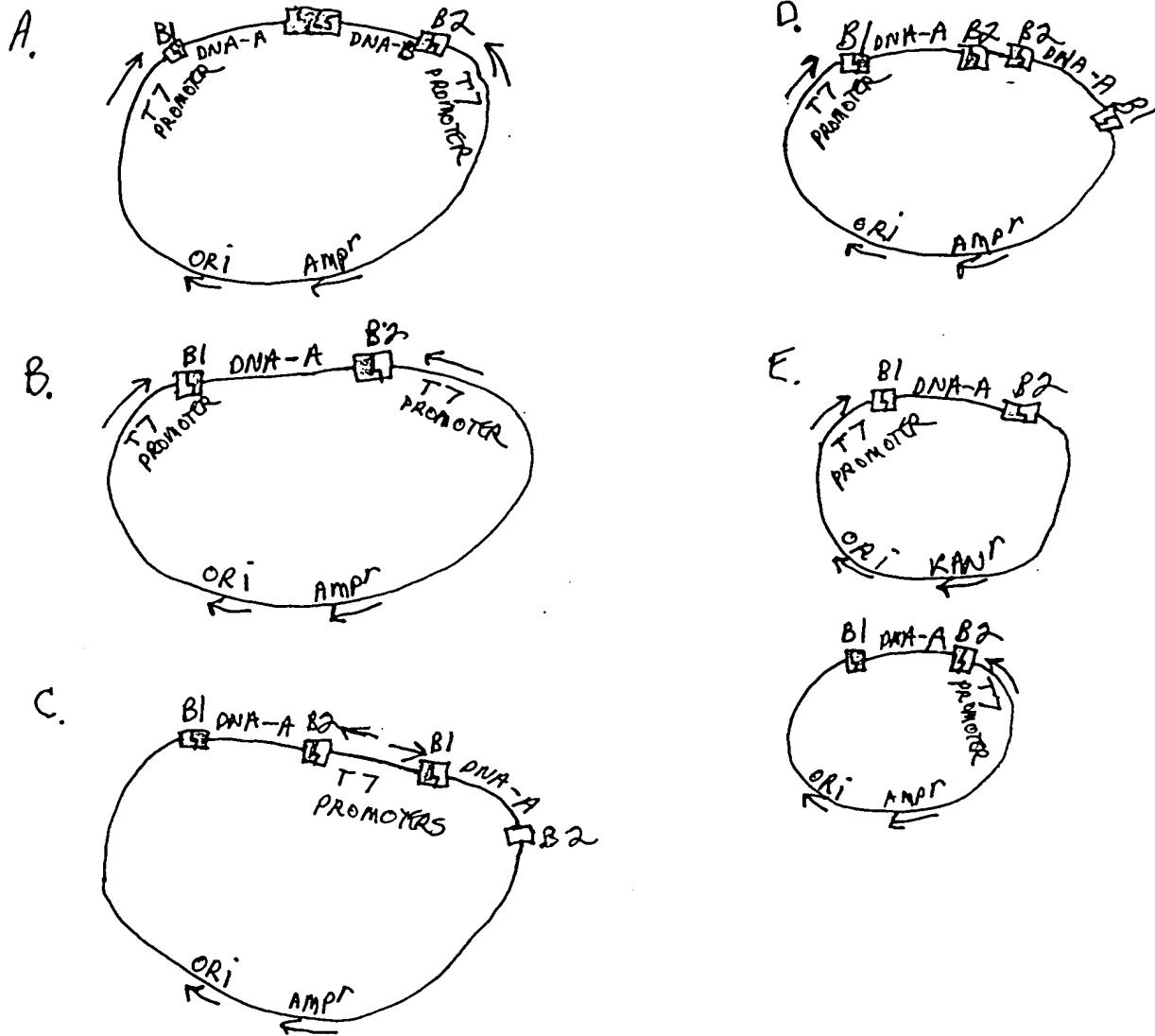


FIGURE 20



## FIGURE 21

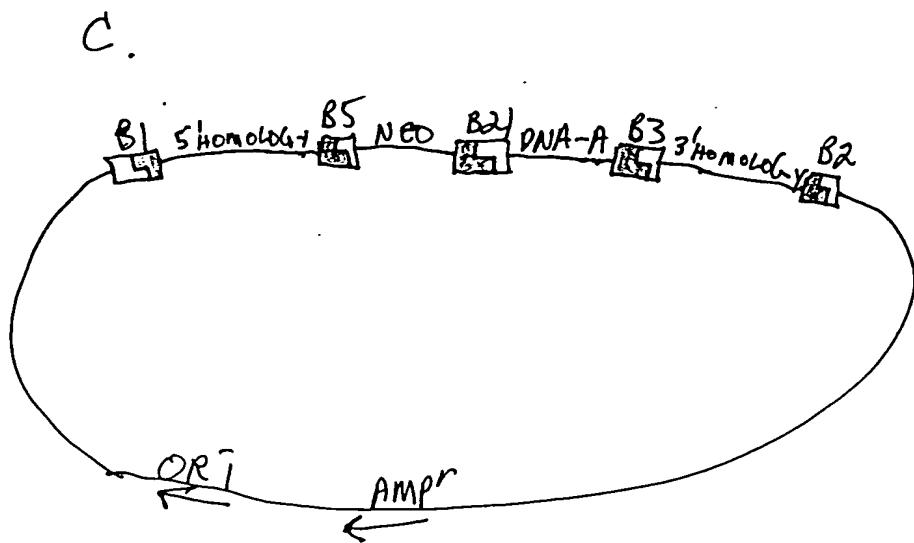
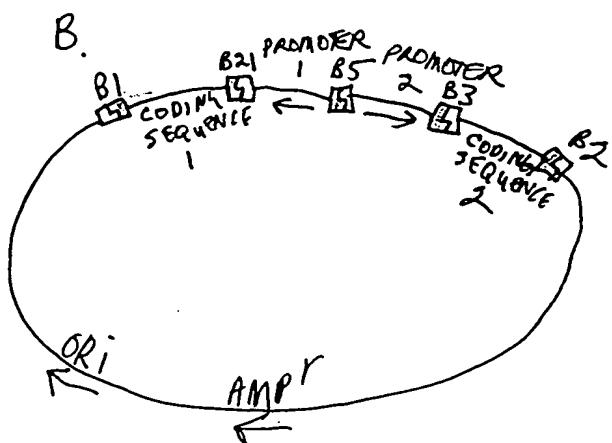
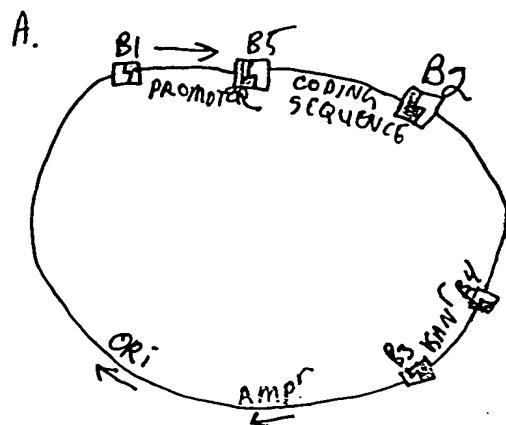


FIGURE 22A

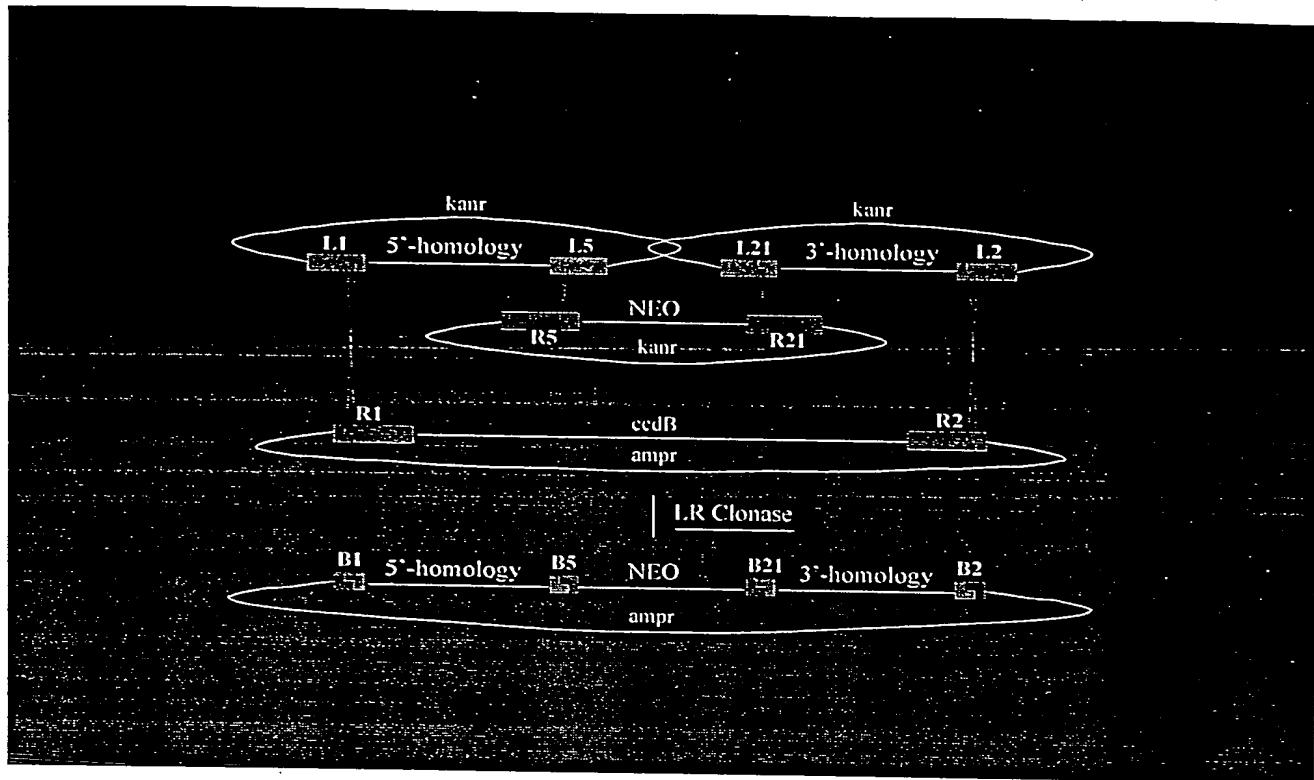
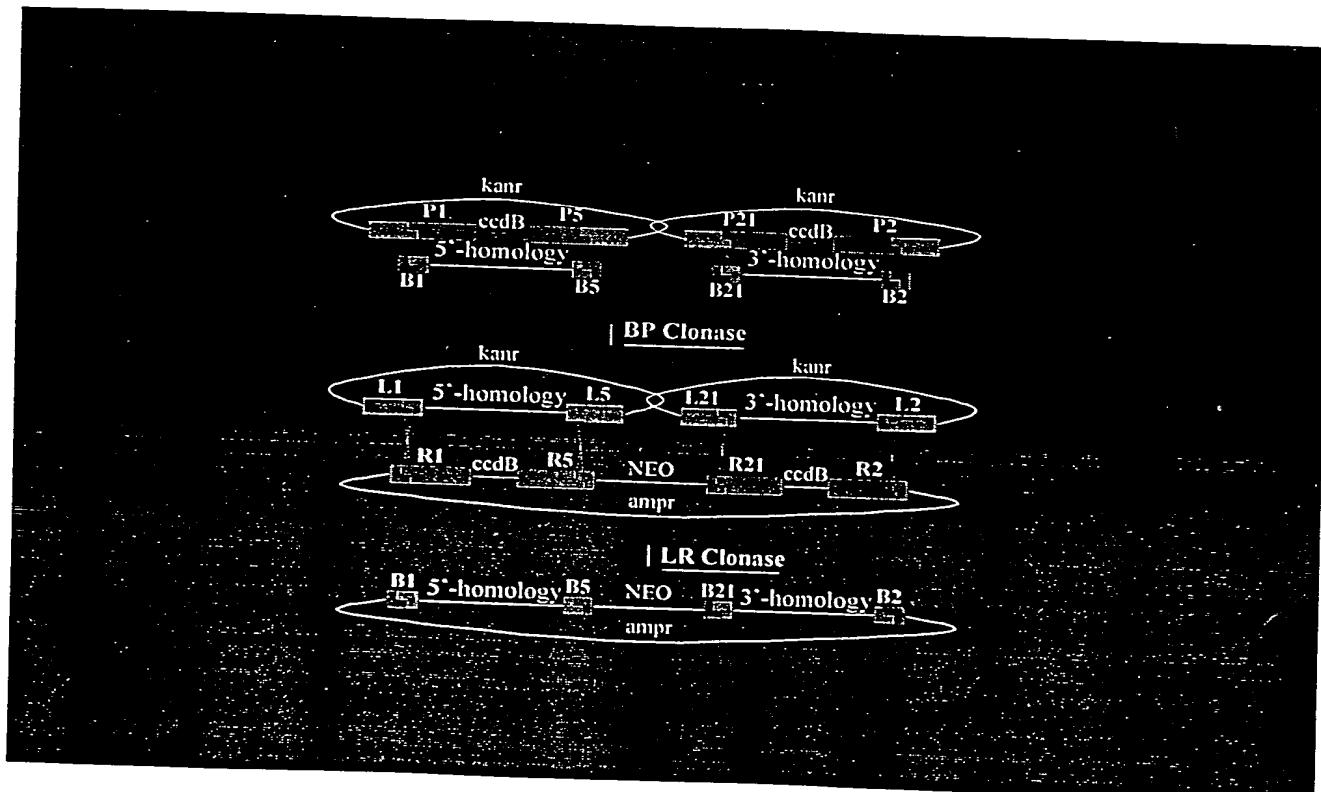
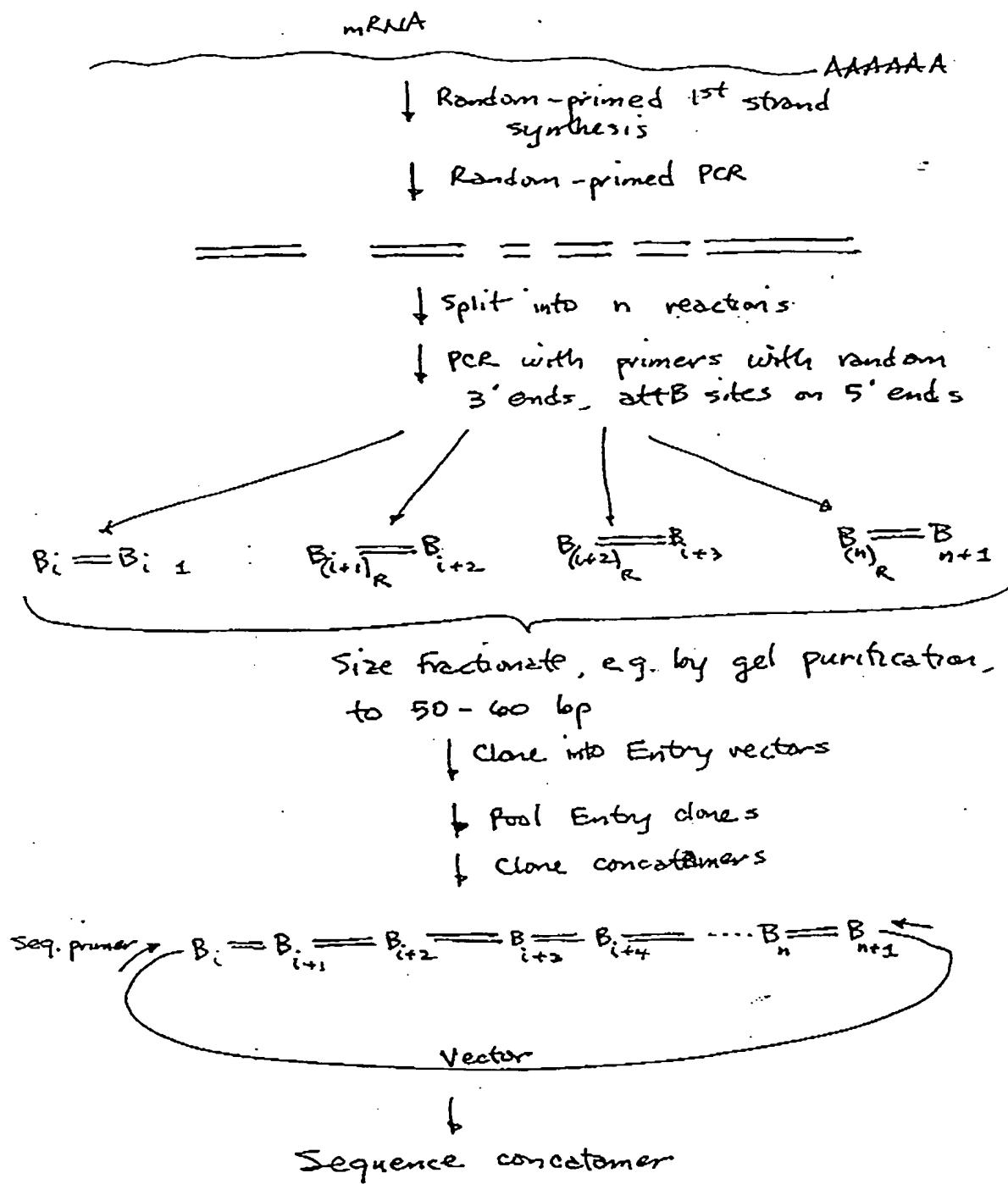


FIGURE 22B



# FIGURE 2B



**FIGURE 24A**

attB0 AGCCTGCTTTTATAACTAATTGAGC (SEQ ID NO:1)  
TCGGACGAAAAAATATGATTGAACCTG

attP0 GTTCAGCTTTTATAACTAAGTTGGCA (SEQ ID NO:2)  
CAAGTCGAAAAAATATGATTCAACCGT

attL0 AGCCTGCTTTTATAACTAAGTTGGCA (SEQ ID NO:3)  
TCGGACGAAAAAATATGATTCAACCGT

attR0 GTTCAGCTTTTATAACTAATTGAGC (SEQ ID NO:4)  
CAAGTCGAAAAAATATGATTGAACCTG

---

attB1 AGCCTGCTTTTTGTACAAACTTGT (SEQ ID NO:5)  
TCGGACGAAAAAATATGTTGAACA

attP1 GTTCAGCTTTTTGTACAAAGTTGGCA (SEQ ID NO:6)  
CAAGTCGAAAAACATGTTCAACCGT

attL1 AGCCTGCTTTTTGTACAAAGTTGGCA (SEQ ID NO:7)  
TCGGACGAAAAACATGTTCAACCGT

attR1 GTTCAGCTTTTTGTACAAACTTGT (SEQ ID NO:8)  
CAAGTCGAAAAACATGTTGAACA

---

attB2 ACCCAGCTTCTTGTACAAAGTGGT (SEQ ID NO:9)  
TGGGTCGAAAGAATATGTTCACCA

attP2 GTTCAGCTTCTTGTACAAAGTTGGCA (SEQ ID NO:10)  
CAAGTCGAAAGAACATGTTCAACCGT

attL2 ACCCAGCTTCTTGTACAAAGTTGGCA (SEQ ID NO:11)  
TGGGTCGAAAGAACATGTTCAACCGT

attR2 GTTCAGCTTCTTGTACAAAGTGGT (SEQ ID NO:12)  
CAAGTCGAAAGAACATGTTGACCA

---

attB5 CAACTTATTATAACAAAGTTGT (SEQ ID NO:13)  
GTTGAAATAATATGTTCAACA

attP5 GTTCAACTTATTATAACAAAGTTGGCA (SEQ ID NO:14)  
CAAGTTGAAATAATATGTTCAACCGT

## FIGURE 24B

attL5 CAACTTTATTATACAAAGTTGGCA (SEQ ID NO:15)  
GTTGAAATAATATGTTCAACCGT

attR5 GTTCAACTTTATTATACAAAGTTGT (SEQ ID NO:16)  
CAAGTTGAAATAATATGTTCAACA

---

attB11 CAACTTTCTATACAAAGTTGT (SEQ ID NO:17)  
GTTGAAAAGATATGTTCAACA

attP11 GTTCAACTTTCTATACAAAGTTGGCA (SEQ ID NO:18)  
CAAGTTGAAAAGATATGTTCAACCGT

attL11 CAACTTTCTATACAAAGTTGGCA (SEQ ID NO:19)  
GTTGAAAAGATATGTTCAACCGT

attR11 GTTCAACTTTCTATACAAAGTTGT (SEQ ID NO:20)  
CAAGTTGAAAAGATATGTTCAACA

---

attB17 CAACTTTTGTATACAAAGTTGT (SEQ ID NO:21)  
GTTGAAAACATATGTTCAACA

attP17 GTTCAACTTTTGTATACAAAGTTGGCA (SEQ ID NO:22)  
CAAGTTGAAAACATATGTTCAACCGT

attL17 CAACTTTTGTATACAAAGTTGGCA (SEQ ID NO:23)  
GTTGAAAACATATGTTCAACCGT

attR17 GTTCAACTTTTGTATACAAAGTTGT (SEQ ID NO:24)  
CAAGTTGAAAACATATGTTCAACA

---

attB19 CAACTTTTCGTACAAAAGTTGT (SEQ ID NO:25)  
GTTGAAAAGCATGTTCAACA

attP19 GTTCAACTTTTCGTACAAAAGTTGGCA (SEQ ID NO:26)  
CAAGTTGAAAAGCATGTTCAACCGT

attL19 CAACTTTTCGTACAAAAGTTGGCA (SEQ ID NO:27)  
GTTGAAAAGCATGTTCAACCGT

attR19 GTTCAACTTTTCGTACAAAAGTTGT (SEQ ID NO:28)  
CAAGTTGAAAAGCATGTTCAACA

### FIGURE 24C

attB20 CAACTTTGGTACAAAGTTGT (SEQ ID NO:29)  
GTTGAAAAACCATGTTCAACA

attP20 GTTCAACTTTGGTACAAAGTTGGCA (SEQ ID NO:30)  
CAAGTTGAAAAACCATGTTCAACCGT

attL20 CAACTTTGGTACAAAGTTGGCA (SEQ ID NO:31)  
GTTGAAAAACCATGTTCAACCGT

attR20 GTTCAACTTTGGTACAAAGTTGT (SEQ ID NO:32)  
CAAGTTGAAAAACCATGTTCAACA

---

attB21 CAACTTTTAATACAAAGTTGT (SEQ ID NO:33)  
GTTGAAAAATTATGTTCAACA

attP21 GTTCAACTTTTAATACAAAGTTGGCA (SEQ ID NO:34)  
CAAGTTGAAAAATTATGTTCAACCGT

attL21 CAACTTTTAATACAAAGTTGGCA (SEQ ID NO:35)  
GTTGAAAAATTATGTTCAACCGT

attR21 GTTCAACTTTTAATACAAAGTTGT (SEQ ID NO:36)  
CAAGTTGAAAAATTATGTTCAACA

FIGURE 25A

## Vector Assembly Using Modular Vector Element Entry Clones

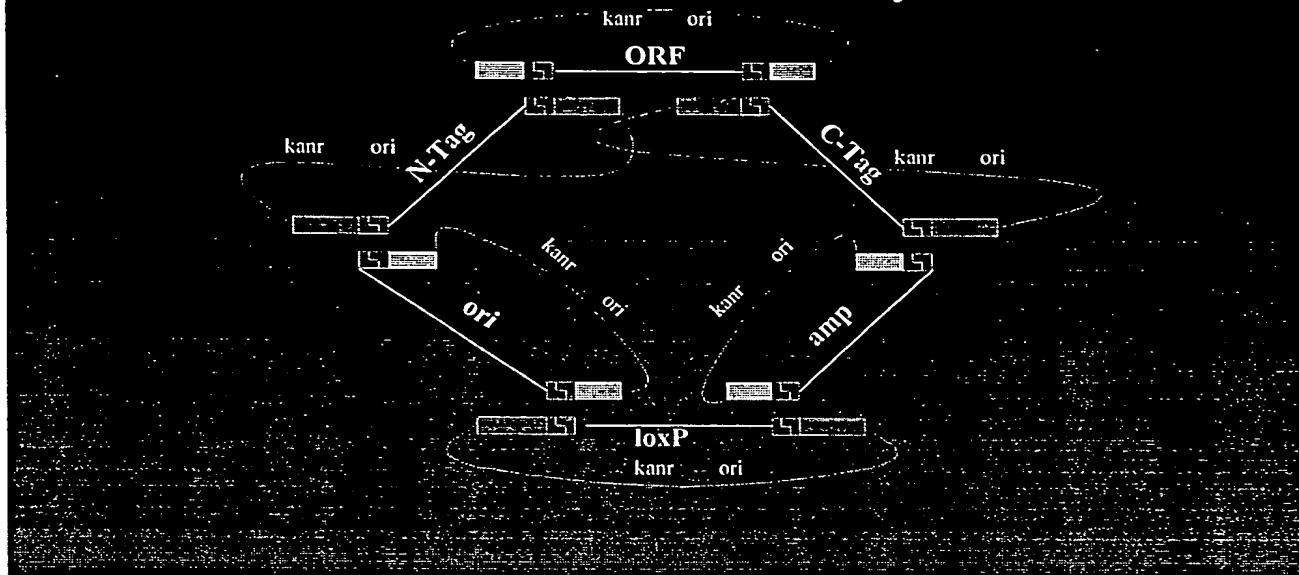


FIGURE 25B

## Vector Assembly Using Modular Vector Element Entry Clones

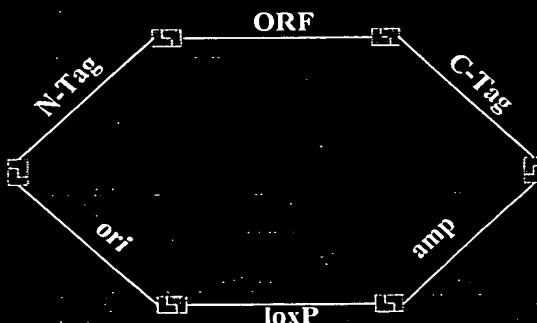


FIGURE 26A

## Construction of attP Plasmids

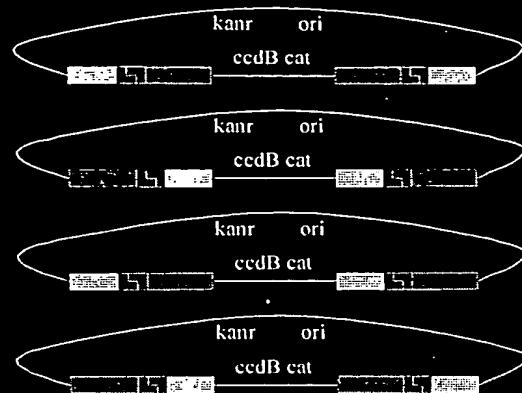
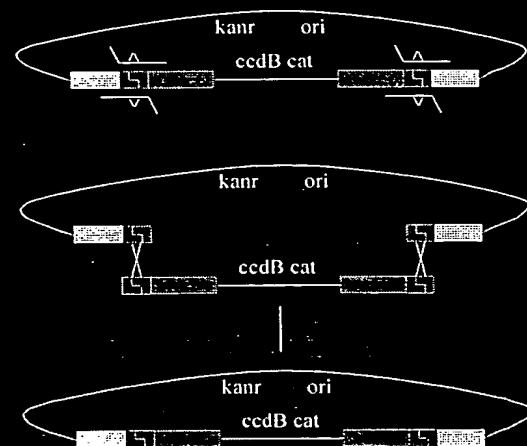
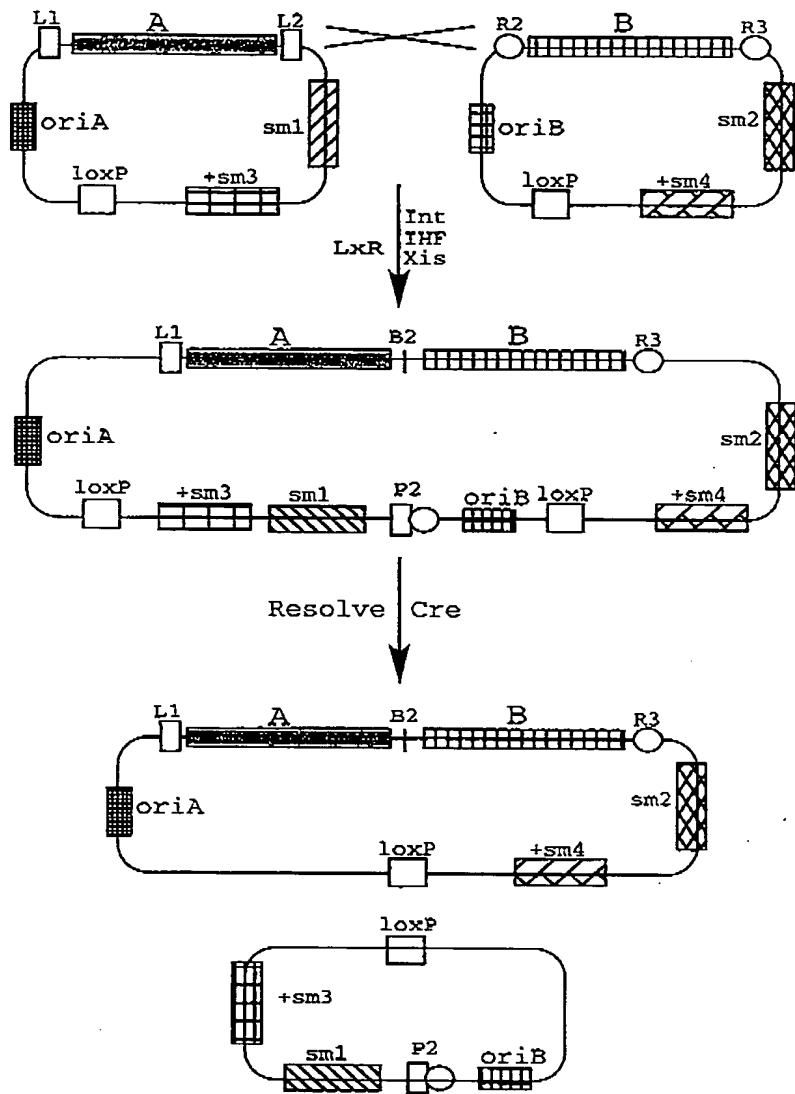


FIGURE 26B

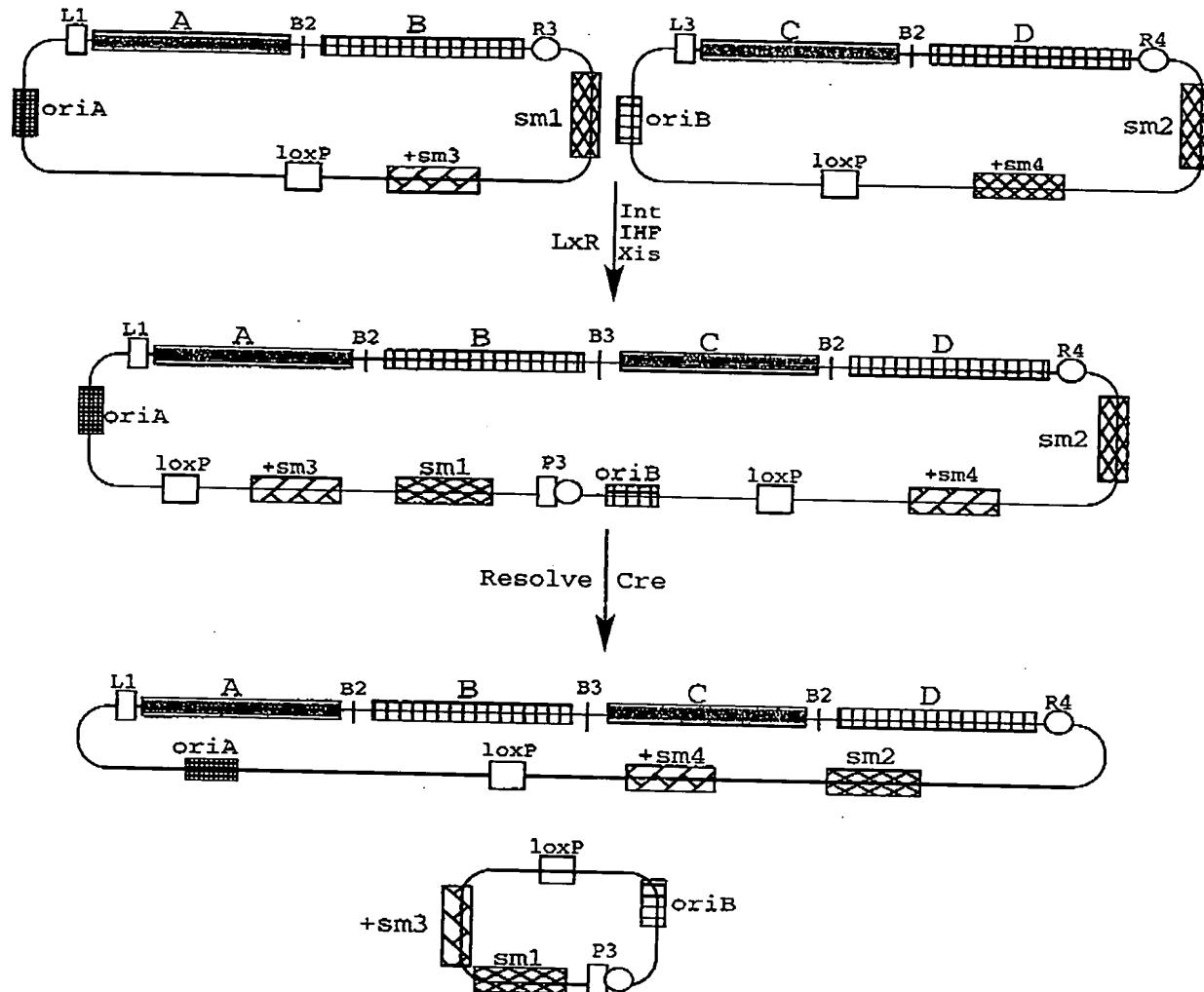
## Construction of attP Plasmids





Transform host that will support replication of oriA but not oriB and moreover, is sensitive to +sm3 but resistant to +sm4.

FIGURE 27A



Transform host that will support replication of oriA but not oriB and moreover, is sensitive to +sm3 but resistant to +sm4.

FIGURE 27B